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Fc epsilon receptors; *see* Receptors, IgE
FK-506; *see* Tacrolimus
Flagellin
Flagellin identified as dominant antigen in Crohn's disease (Zweiman and Rothenberg). 2004;114:461-2 (Beyond our pages)
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Risk of oral food challenges (Perry et al). 2004;114:1164-8

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Treatment of infants coinfected with HIV-1 and cytomegalovirus with combination antiretrovirals and ganciclovir (Saitoh et al). 2004;114:983-5 (Letters to the editor)

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M cell targeting with *Aleuria aurantia* lectin as a novel approach for oral allergen immunotherapy (Roth-Walter et al). 2004;114:1362-8

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Granulomatous-lymphocytic lung disease shortens survival in common variable immunodeficiency (Bates et al). 2004;114:415-21

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Regarding "*Trichosporon pullulans* infection in 2 patients with chronic granulomatous disease" (Holland et al). 2004;114:205-6 (Correspondence)

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H1 histamine receptor mediates inflammatory responses in human keratinocytes (Giustizieri et al). 2004;114:1176-82
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Therapy for cytomegalovirus and HIV-1 coinfected infants (Leung et al). 2004;114:714 (The editors' choice)
Treatment of infants coinfected with HIV-1 and cytomegalovirus with combination antiretrovirals and ganciclovir (Saitoh et al). 2004;114:983-5 (Letters to the editor)
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Genetic basis of the latex-fruit syndrome: association with HLA class II alleles in a Spanish population (Blanco et al). 2004;114:1070-6
HLA-DQB1*03 in allergic fungal sinusitis and other chronic hypertrophic rhinosinusitis disorders (Schubert et al). 2004;114:1376-83
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Antigen-specific secretory IgA antibodies in the gut are decreased in a mouse model of food allergy (Frossard et al). 2004;114:377-82
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A signal transducer and activator of transcription 6 haplotype influences the regulation of serum IgE levels (Schedel et al). 2004;114:1100-5
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Determination of food specific IgE levels over time can predict the development of tolerance in cow's milk and hen's egg allergy (Shek et al). 2004;114:387-91
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Heat denaturation affects the ProDer p 1 IgE reactivity and downregulates the development of the specific allergic response (Magi et al). 2004;114:545-52
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Loss of receptors and IgE *in vivo* during treatment with anti-IgE antibody (MacGlashan). 2004;114:1472-4 (Letters to the editor)
Mapping of conformational IgE epitopes on Phl p 5a by using mimotopes from a phage display library (Hantusch et al). 2004;114:1294-300
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Sugar glider allergy: identification of serum specific IgE (Rathkopf et al). 2004;114:693-5 (Letters to the editor)
Synthesis of IL-13 by human B lymphocytes: regulation and role in IgE production (Hajoui et al). 2004;114:657-63
The relationship of allergen-specific IgE levels and oral food challenge outcome (Perry et al). 2004;114:144-9

IgG

Children and adults with primary antibody deficiencies gain quality of life by subcutaneous IgG self-infusions at home (Gardulf et al). 2004; 114:936-42

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Anaphylactic IgG1, but not nonanaphylactic IgG1, enhances allergic respiratory inflammation (Leung et al). 2004;114:1 (The editors' choice)
Lung eosinophilic inflammation and airway hyperreactivity are enhanced by murine anaphylactic, but not nonanaphylactic, IgG1 antibodies (Macedo-Soares et al). 2004;114:97-104

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Activation of mast cells by double-stranded RNA: evidence for activation through Toll-like receptor 3 (Kulka et al). 2004;114:174-82
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The mastocyte: the "other" inflammatory cell in immunopathogenesis (Mekori). 2004;114:52-7 (Editorial)

Immune system

Childhood infections, the developing immune system, and the origins of asthma (Openshaw et al). 2004;114:1275-7

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Determination of food specific IgE levels over time can predict the development of tolerance in cow's milk and hen's egg allergy (Shek et al). 2004;114: 387-91
Increased noncanonical splicing of autoantigen transcripts provides the structural basis for expression of untolerized epitopes (Ng et al). 2004;114: 1463-70
Lung tolerance dependent on specialized dendritic cells (Zweiman and Rothenberg). 2004;114:1483 (Beyond our pages)
New developments in food allergy: old questions remain (Lack). 2004;114:127-30. Correction 2004;114:914 (Editorial)
Tolerance to inhaled antigen involves membrane-bound TGF-β (Zweiman and Rothenberg). 2004;114:994 (Beyond our pages)

Immunity

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Immunization

Latex allergens are not detectable in reconstituted smallpox vaccine or vaccine vial stoppers (Poland et al). 2004;114:454-6 (Letters to the editor)
Mechanistic actions of the risks and adverse events associated with vaccine administration (Moylett and Hanson). 2004;114:1010-20
Prevention of long-term IgE antibody production by gene gunmediated DNA vaccination (Ludwig-Portugall et al). 2004;114:951-7
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Immunologic deficiency syndromes

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Children and adults with primary antibody deficiencies gain quality of life by subcutaneous IgG self-infusions at home (Gardulf et al). 2004;114:936-42
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Granulomatous-lymphocytic lung disease shortens survival in common variable immunodeficiency (Bates et al). 2004;114:415-21
Human nuclear factor κB essential modulator mutation can result in immunodeficiency without ectodermal dysplasia (Orange et al). 2004;114:650-6
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Primary immunodeficiency diseases: an update (Notarangelo et al). 2004;114:677-87
Subcutaneous immunoglobulins: alternative for the hypogammaglobulinemic patient? (Chinen and Shearer). 2004;114:934-5 (Editorial)
The role of activation-induced cytidine deaminase in antibody diversification, immunodeficiency, and B-cell malignancies (Luo et al). 2004;114:726-35

Immunology
Advances in Asthma, Allergy and Immunology Series 2004: basic and clinical immunology (Chinen and Shearer). 2004;114:398-405
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Modulation of allergic responses in mice by using biodegradable poly(lactide-*co*-glycolide) microspheres (Jilek et al). 2004;114:943-50
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Characterization of natural Dac g 1 variants: an alternative to recombinant group 1 allergens (van Oort et al). 2004;114:1124-30
Coseasonal sublingual immunotherapy reduces the development of asthma in children with allergic rhinoconjunctivitis (Novembre et al). 2004;114:851-7
Dose dependence and time course of the immunologic response to administration of standardized cat allergen extract (Nanda et al). 2004;114: 1339-44
Heat denaturation affects the ProDer p 1 IgE reactivity and downregulates the development of the specific allergic response (Magi et al). 2004;114: 545-52
Long-term outcomes of allergy to insect stings in children, with and without venom immunotherapy (Zweiman and Rothenberg). 2004;114:1481 (Beyond our pages)
M cell targeting with *Aleuria aurantia* lectin as a novel approach for oral allergen immunotherapy (Roth-Walter et al). 2004;114:1362-8
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Randomized controlled trial of high-dose sublingual immunotherapy to treat seasonal allergic rhinitis (Smith et al). 2004;114:831-7
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Antigen stimulation of T_H2 cells augments acute bacterial sinusitis in mice (Yu et al). 2004;114: 328-34
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IL-4–independent pathways exacerbate methacholine-induced airway hyperreactivity during mycoplasma respiratory disease (Woolard et al). 2004;114:645-9
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Susceptibility to allergic lung disease regulated by recall responses of dual-receptor memory T cells (Aronica et al). 2004;114:1441-8
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Anaphylactic IgG1, but not nonanaphylactic IgG1, enhances allergic respiratory inflammation (Leung et al). 2004;114:1 (The editors' choice)
Chronic sinusitis consensus and the way forward (Platts-Mills and Rosenwasser). 2004;114:1359-61 (Editorial)
Evidence linking otitis media with effusion to the united airways concept (Leung et al). 2004;114:996 (The editors' choice)
Exhaled air temperature and eosinophil airway inflammation in allergic asthmatic children (Piacentini et al). 2004;114:202-3 (Letters to the editor)
H1 histamine receptor mediates inflammatory responses in human keratinocytes (Giustizieri et al). 2004;114:1176-82
IL-17A augments TNF-α–induced IL-6 expression in airway smooth muscle by enhancing mRNA stability (Henness et al). 2004;114:958-64
Inflammation and remodeling in chronic obstructive pulmonary disease (Hamid et al). 2004;114: 1479-81 (Images in allergy and immunology)
Inflammatory mediators in allergic rhinitis (Gelfand). 2004;114:S135-S138
Mechanism of anemia of chronic disease elucidated (Zweiman and Rothenberg). 2004;114:462 (Beyond our pages)
Migration and accumulation of eosinophils toward regional lymph nodes after airway allergen challenge (Duez et al). 2004;114:820-5
New series: perspectives in asthma (Busse and Leung). 2004;114:1022 (Editorial)
Prostaglandin E_2 suppresses CCL27 production through EP2 and EP3 receptors in human keratinocytes (Kanda et al). 2004;114:1403-9
Regulation of T_H2 responses by the pulmonary Clara cell secretory 10-kd protein (Hung et al). 2004;114:664-70
Similar allergic inflammation in the middle ear and the upper airway: evidence linking otitis media with effusion to the united airways concept (Nguyen et al). 2004;114:1110-5
The Aerocrine exhaled nitric oxide monitoring system NIOX is cleared by the US Food and Drug

Administration for monitoring therapy in asthma (Silkoff et al). 2004;114:1241-56 (New products)
The correlation between allergic rhinitis and sleep disturbance (Craig et al). 2004;114:S139-S145
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The role of protease activation of inflammation in allergic respiratory diseases (Reed and Kita). 2004;114:997-1008

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Diagnosis and classification of mast cell proliferative disorders: delineation from immunologic diseases and non–mast cell hematopoietic neoplasms (Valent et al). 2004;114:3-11
Effect of sex and haplotype on plasma tryptase levels in healthy adults (Min et al). 2004;114:48-51
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Insect bites and stings; *see also* Hymenoptera
Advances in allergic skin disease, anaphylaxis, and hypersensitivity reactions to foods, drugs, and insect stings (Sicherer and Leung). 2004;114:118-24
Cross-reactivity between allergens in the venom of the common striped scorpion and the imported fire ant (Nugent et al). 2004;114:383-6
Immune responses to mosquito saliva in 14 individuals with acute systemic allergic reactions to mosquito bites (Peng et al). 2004;114:1189-94
Long-term outcomes of allergy to insect stings in children, with and without venom immunotherapy (Zweiman and Rothenberg). 2004;114:1482 (Beyond our pages)
Stinging insect hypersensitivity: a practice parameter update (Moffitt et al). 2004;114:869-86 (Practice parameter)
Systemic reactions to mosquito bites (Leung et al). 2004;114:995 (The editors' choice)

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Lactobacillus GG effect in increasing IFN-γ production in infants with cow's milk allergy (Pohjavuori et al). 2004;114:131-6

Interleukin-4 (IL-4)
A comprehensive evaluation of *IL4* variants in ethnically diverse populations: association of total serum IgE levels and asthma in white subjects (Basehore et al). 2004;114:80-7
A signal transducer and activator of transcription 6 haplotype influences the regulation of serum IgE levels (Schedel et al). 2004;114:1100-5
Basophils identified as a chief source of IL-4 (Zweiman and Rothenberg). 2004;114:1483 (Beyond our pages)
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IL-4–independent pathways exacerbate methacholine-induced airway hyperreactivity during mycoplasma respiratory disease (Woolard et al). 2004;114:645-9
Role of alternative macrophage activation (M2 macrophage) in T_H2 responses (Zweiman and Rothenberg). 2004;114:993-4 (Beyond our pages)

Interleukin-6 (IL-6)
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Interleukin-8 (IL-8)
Association study suggests opposite effects of polymorphisms within *IL8* on bronchial asthma and respiratory syncytial virus bronchiolitis (Heinzmann et al). 2004;114:671-6
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Interleukin-10 (IL-10)
Fluticasone propionate increases $CD4^+CD25^+$ T regulatory cell suppression of allergen-stimulated $CD4^+CD25^-$ T cells by an IL-10–dependent mechanism (Nguyen and Robinson). 2004;114:296-301
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Interleukin-12 (IL-12)
Cell-to-cell contact between activated $CD4^+$ T lymphocytes and unprimed monocytes interferes with a T_H1 response (Wittmann et al). 2004;114:965-73

Interleukin-13 (IL-13)
Chitinase identified in asthma pathogenesis (Zweiman and Rothenberg). 2004;114:1239-40 (Beyond our pages)
Functional effect of the R110Q IL13 genetic variant alone and in combination with IL4RA genetic variants (Chen et al). 2004;114:553-60
Sputum and bronchial submucosal IL-13 expression in asthma and eosinophilic bronchitis (Berry et al). 2004;114:1106-9
Synthesis of IL-13 by human B lymphocytes: regulation and role in IgE production (Hajoui et al). 2004;114:657-63
Systemic effects of allergen exposure on blood basophil IL-13 secretion and FcεRI (Saini et al). 2004;114:768-74

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Asthma is induced by intranasal coadministration of allergen and natural killer T-cell ligand in a mouse model (Kim et al). 2004;114:1332-8

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Lactobacillus GG effect in increasing IFN-γ production in infants with cow's milk allergy (Pohjavuori et al). 2004;114:131-6

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Latex allergy
Decreasing incidence of occupational contact urticaria caused by natural rubber latex allergy in German health care workers (Allmers et al). 2004;114:347-51
Different latex aeroallergen size distributions between powdered surgical and examination gloves: significance for environmental avoidance (Brown et al). 2004;114:358-63
Genetic basis of the latex-fruit syndrome: association with HLA class II alleles in a Spanish population (Blanco et al). 2004;114:1070-6
Hev b 5 and Hev b 13 as allergen markers to estimate the allergenic potency of latex gloves (Yeang et al). 2004;114:593-8
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Systemic mastocytosis associated with acute myeloid leukemia: case report and implications for disease pathogenesis (Escribano et al). 2004;114:28-33 (Case Study)

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Leukotriene receptor antagonists ineffective as add-on therapy for chronic idiopathic urticaria (Leung et al). 2004;114:464 (The editors' choice)

The HLA-DPB1*0301 marker might predict the requirement for leukotriene receptor antagonist in patients with aspirin-intolerant asthma (Park et al). 2004;114:688-9 (Letters to the editor)

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Cysteinyl leukotrienes and collagen type I synthesis in asthma (Nomura et al). 2004;114:197-9 (Letters to the editor)

Effects of inhaled corticosteroids on exhaled leukotrienes and prostanoids in asthmatic children (Mondino et al). 2004;114:761-7

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Levocetirizine improves quality of life and reduces costs in long-term management of persistent allergic rhinitis (Bachert et al). 2004;114:838-44

Lipid transfer protein

Lipid transfer protein and vicilin are important walnut allergens in patients not allergic to pollen (Pastorello et al). 2004;114:908-14

Strong allergenicity of Pru av 3, the lipid transfer protein from cherry, is related to high stability against thermal processing and digestion (Scheurer et al). 2004;114:900-7

Lipopolysaccharides

A *TLR4* polymorphism is associated with asthma and reduced lipopolysaccharide-induced interleukin-12(p70) responses in Swedish children (Böttcher et al). 2004;114:561-7

Can bacteria fight asthma? (Leung et al). 2004;114:212 (The editors' choice)

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Methodologic advancements in the study of airway smooth muscle (Kotlikoff et al). 2004;114:S18-S31

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Functional and molecular evaluation of lymphocytes (Fleisher and Oliveira). 2004;114:227-34

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The role of activation-induced cytidine deaminase in antibody diversification, immunodeficiency, and B-cell malignancies (Luo et al). 2004;114:726-35

Lymphopenia

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Macrophages

Role of alternative macrophage activation (M2 macrophage) in T_H2 responses (Zweiman and Rothenberg). 2004;114:993-4 (Beyond our pages)

MAP kinase kinase kinases

Induction of granulocyte-macrophage colony-stimulating factor by a new cytokine, ML-1 (IL-17F), via

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Activation of mast cells by double-stranded RNA: evidence for activation through Toll-like receptor 3 (Kulka et al). 2004;114:174-82

Diagnosis and classification of mast cell proliferative disorders: delineation from immunologic diseases and non–mast cell hematopoietic neoplasms (Valent et al). 2004;114:3-11

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Heparin attenuates symptoms and mast cell degranulation induced by AMP nasal provocation (Zeng et al). 2004;114:316-20

Inhibition of allergen-specific IgE reactivity by a human Ig Fcγ-Fcε bifunctional fusion protein (Zhang et al). 2004;114:321-7

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Omalizumab reduces skin mast cell IgE receptors and function (Leung et al). 2004;114:464 (The editors' choice)

Protein kinase Cδ functions downstream of Ca^{2+} mobilization in FcεRI signaling to degranulation in mast cells (Cho et al). 2004;114:1085-92

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The role of the mast cell in asthma: induction of airway hyperresponsiveness by interaction with smooth muscle? (Robinson). 2004;114:58-65

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Eosinophilic meningitis secondary to allergic *Aspergillus* sinusitis (Chan et al). 2004;114:194-5 (Letters to the editor)

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Method of nebulizer calibration and methacholine airway responsiveness (Davis et al). 2004;114:1474-5 (Letters to the editor)

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Environmental detection of mouse allergen by means of immunoassay for recombinant Mus m 1 (Ferrari et al). 2004;114:341-6

Milk hypersensitivity

Determination of food specific IgE levels over time can predict the development of tolerance in cow's milk and hen's egg allergy (Shek et al). 2004;114:387-91

Lactobacillus GG effect in increasing IFN-γ production in infants with cow's milk allergy (Pohjavuori et al). 2004;114:131-6

Minority groups

Characteristics of children with asthma who are enrolled in a Head Start program (Vargas et al). 2004;114:499-504

Effect of wintertime ambient air pollutants on asthma exacerbation in urban minority children with moderate to severe disease (Rabinovitch et al). 2004;114:1131-7

Mites

Clinical effectiveness of a mite allergen–impermeable bed-covering system in asthmatic mite-sensitive patients (van den Bemt et al). 2004;114:858-62

Dietary fatty acid modification and house dust mite reduction in the prevention of asthma (Leung et al). 2004;114:714 (The editors' choice)

Family history, dust mite exposure in early childhood, and risk for pediatric atopy and asthma (Johnson et al). 2004;114:105-10

Geographic variations in the effect of atopy on asthma in the European Community Respiratory Health Study (Sunyer et al). 2004;114:1033-9

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Loss of receptors and IgE *in vivo* during treatment with anti-IgE antibody (MacGlashan). 2004;114:1472-4 (Letters to the editor)

Rebound eosinophilia after treatment of hypereosinophilic syndrome and eosinophilic gastroenteritis with monoclonal anti−IL-5 antibody SCH55700 (Kim et al). 2004;114:1449-55

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Effect of montelukast and fluticasone propionate on airway mucosal blood flow in asthma (Zweiman and Rothenberg). 2004;114:993 (Beyond our pages)

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Can bacteria fight asthma? (Leung et al). 2004;114:212 (The editors' choice)

Suppression of allergic airway disease using mycobacterial lipoglycans (Sayers et al). 2004;114:302-9

N

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Dynamics of COX-2 in nasal mucosa and nasal polyps from aspirin-tolerant and aspirin-intolerant patients with asthma (Pujols et al). 2004;114:814-9

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Chronic sinusitis consensus and the way forward (Platts-Mills and Rosenwasser). 2004;114:1359-61 (Editorial)

Gene abnormalities detected in human nasal polyps (Leung et al). 2004;114:714 (The editors' choice)

Gene expression profiles in human nasal polyp tissues studied by means of DNA microarray (Liu et al). 2004;114:783-90

Staphylococcus aureus colonization and IgE antibody formation to enterotoxins is increased in nasal polyposis (Van Zele et al). 2004;114:981-3 (Letters to the editor)

Nasal provocation test

Modern histamine H_1-receptor antagonists in the unified airway (Deruaz and Spertini). 2004;114:698-9 (Letter reply)

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The National Allergy Bureau: pollen and spore reporting today (Portnoy and Barnes). 2004;114:1235-8 (The allergy archives)

Natriuretic hormone peptide

Natriuretic peptides and genesis of asthma: an emerging paradigm? (Mohapatra et al). 2004;114:520-6

Nebulizers and inhalers

Adherence logger for a dry powder inhaler: a new device for medical adherence research (Bogen and Apter). 2004;114:863-8

Dosimeter methacholine challenge: comparison of maximal versus submaximal inhalation (Todd et al). 2004;114:517-9

Method of nebulizer calibration and methacholine airway responsiveness (Davis et al). 2004;114:1474-5 (Letters to the editor)

Systemic and pulmonary effects of fluticasone administered through a metered-dose inhaler in rats (Sorkness et al). 2004;114:1027-32

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Finding NEMO (Leung et al). 2004;114:463 (The editors' choice)

Human nuclear factor κB essential modulator mutation can result in immunodeficiency without ectodermal dysplasia (Orange et al). 2004;114:650-6

Nuclear factor κB essential modulator−deficient child with immunodeficiency yet without anhidrotic ectodermal dysplasia (Niehues et al). 2004;114:1456-62

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Peripheral blood eosinophils from patients with allergic asthma contain increased intracellular eosinophil-derived neurotoxin (Sedgwick et al). 2004;114:568-74

Neutrophils

Invasive infection with *Trichosporon inkin* in 2 siplings with chronic granulomatous disease (Wynne et al). 2004;114:1418-24 (Case study)

Nitric oxide

Exhaled nitric oxide as a marker of airway inflammation for an epidemiologic study in schoolchildren (Saito et al). 2004;114:512-6

The Aerocrine exhaled nitric oxide monitoring system NIOX is cleared by the US Food and Drug Administration for monitoring therapy in asthma (Silkoff et al). 2004;114:1241-56 (New products)

Nuclear factor-kappa B essential modulator; *see* NEMO protein

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Lipid transfer protein and vicilin are important walnut allergens in patients not allergic to pollen (Pastorello et al). 2004;114:908-14

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Serum nutrient markers and skin prick testing using data from the Third National Health and Nutrition Examination Survey (McKeever et al). 2004;114:1398-402

O

Occupational exposure

Decreasing incidence of occupational contact urticaria caused by natural rubber latex allergy in German health care workers (Allmers et al). 2004;114:347-51

Different latex aeroallergen size distributions between powdered surgical and examination gloves: significance for environmental avoidance (Brown et al). 2004;114:358-63

Environmental detection of mouse allergen by means of immunoassay for recombinant Mus m 1 (Ferrari et al). 2004;114:341-6

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Loss of receptors and IgE *in vivo* during treatment with anti-IgE antibody (MacGlashan). 2004;114:1472-4 (Letters to the editor)

Omalizumab-induced reductions in mast cell FcεRI expression and function (Beck et al). 2004;114:527-30

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Recurrent anaphylaxis linked to pantoprazole (Kollmeier et al). 2004;114:975-7 (Letters to the editor)

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Parental management of asthma triggers within a child's environment (Cabana et al). 2004;114:352-7

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Peanut hypersensitivity

Ara h 8, a Bet v 1–homologous allergen from peanut, is a major allergen in patients with combined birch pollen and peanut allergy (Mittag et al). 2004;114:1410-7

Peanut allergy: recurrence and its management (Fleischer et al). 2004;114:1195-201

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Asthma and sensitization in a community with low indoor allergen levels and low pet-keeping frequency (Al-Mousawi et al). 2004;114:1389-94

Cat and dog allergens in US homes (Leung et al). 2004;114:2 (The editors' choice)

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Inhalation of low-dose endotoxin favors local T_H2 response and primes airway phagocytes *in vivo* (Alexis et al). 2004;114:1325-31

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Onset of action of pimecrolimus cream 1% in the treatment of atopic eczema in infants (Kaufmann et al). 2004;114:1183-8
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Carl Prausnitz: a personal memoir (Frankland). 2004;114:700-4 (The allergy archives)
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Expression of prostaglandin E_2 receptor subtypes on cells in sputum from patients with asthma and controls: effect of allergen inhalational challenge (Ying et al). 2004;114:1309-16
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Prostaglandin E_2 suppresses CCL27 production through EP2 and EP3 receptors in human keratinocytes (Kanda et al). 2004;114:1403-9
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Granulomatous-lymphocytic lung disease shortens survival in common variable immunodeficiency (Bates et al). 2004;114:415-21

Q

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Children and adults with primary antibody deficiencies gain quality of life by subcutaneous IgG self-infusions at home (Gardulf et al). 2004;114:936-42

Development of a questionnaire to measure quality of life in families with a child with food allergy (Cohen et al). 2004;114:1159-63

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Expression and function of the angiopoietin receptor Tie-2 in human eosinophils (Feistritzer et al). 2004;114:1077-84

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Soluble decoy receptor 3: increased levels in atopic patients (Chen et al). 2004;114:195-7 (Letters to the editor)

Receptors, G-protein-coupled

Lack of association of *GPRA* (G protein–coupled receptor for asthma susceptibility) haplotypes with high serum IgE or asthma in a Korean population (Shin et al). 2004;114:1226-7 (Letters to the editor)

Receptors, IgE

Characterization of FcεRI-bearing CD123$^+$ blood dendritic cell antigen-2$^+$ plasmacytoid dendritic cells in atopic dermatitis (Novak et al). 2004;114:364-70

Inhibition of allergen-specific IgE reactivity by a human Ig Fcγ-Fcε bifunctional fusion protein (Zhang et al). 2004;114:321-7

Omalizumab-induced reductions in mast cell FcεRI expression and function (Beck et al). 2004;114:527-30

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Cysteinyl leukotriene receptor antagonist regulates vascular permeability by reducing vascular endothelial growth factor expression (Lee et al). 2004;114:1093-9

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Expression of prostaglandin E_2 receptor subtypes on cells in sputum from patients with asthma and controls: effect of allergen inhalational challenge (Ying et al). 2004;114:1309-16

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Characterization of natural Dac g 1 variants: an alternative to recombinant group 1 allergens (van Oort et al). 2004;114:1124-30

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Rhinosinusitis: establishing definitions for clinical research and patient care (Meltzer et al). 2004;114:S155-S212

Risks and benefits in pediatric asthma procedures (Leung et al). 2004;114:995 (The editors' choice)

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Respiratory syncytial virus

Association study suggests opposite effects of polymorphisms within *IL8* on bronchial asthma and respiratory syncytial virus bronchiolitis (Heinzmann et al). 2004;114:671-6

The spectrum of severe wheezing in childhood (Gern). 2004;114:236-8 (Editorial)

Viral infections and asthma inception (Lemanske). 2004;114:1023-6

Viral infections in relation to age, atopy, and season of admission among children hospitalized for wheezing (Heymann et al). 2004;114:239-47

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Inflammatory mediators in allergic rhinitis (Gelfand). 2004;114:S135-S138
Introduction: Stuffy is also related to Sleepy and Grumpy—the link between rhinitis and sleep-disordered breathing (Meltzer). 2004;114: S133-S134
Levocetirizine improves quality of life and reduces costs in long-term management of persistent allergic rhinitis (Bachert et al). 2004;114: 838-44
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Pharmacologic approaches to daytime and nighttime symptoms of allergic rhinitis (Storms). 2004;114:S146-S153
Remission of allergic rhinitis: an 8-year observational study (Bodtger et al). 2004;114:1384-8
The correlation between allergic rhinitis and sleep disturbance (Craig et al). 2004;114:S139-S145

Rhinitis, allergic, seasonal; *see* Hay fever

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S

Scorpion venoms

Cross-reactivity between allergens in the venom of the common striped scorpion and the imported fire ant (Nugent et al). 2004;114:383-6

Seafood

Is glucosamine safe in patients with seafood allergy? (Gray et al). 2004;114:459-60 (Letters to the editor)
Prevalence of seafood allergy in the United States determined by a random telephone survey (Sicherer et al). 2004;114:159-65
You can have fish allergy and eat it too! (Bahna). 2004;114:125-6 (Editorial)

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Asthma and sensitization in a community with low indoor allergen levels and low pet-keeping frequency (Al-Mousawi et al). 2004;114:1389-94
Asthma is induced by intranasal coadministration of allergen and natural killer T-cell ligand in a mouse model (Kim et al). 2004;114:1332-8
Breast-feeding reduces the risk of asthma during the first 4 years of life (Kull et al). 2004;114:755-60
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Hev b 5 and Hev b 13 as allergen markers to estimate the allergenic potency of latex gloves (Yeang et al). 2004;114:593-8
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Clinic record review of pediatric asthmatic patients after September 11, 2001, does not support authors' conclusions (Matte and Mostashari). 2004;114:989 (Correspondence)
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Effect of sex and haplotype on plasma tryptase levels in healthy adults (Min et al). 2004;114: 48-51
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Sexual differentiation

Association between atopy and cryptorchidism (Weidinger et al). 2004;114:192-3 (Letters to the editor)

Signal transduction

A signal transducer and activator of transcription 6 haplotype influences the regulation of serum IgE levels (Schedel et al). 2004;114:1100-5

Functional effect of the R110Q IL13 genetic variant alone and in combination with IL4RA genetic variants (Chen et al). 2004;114:553-60
Inhibition of signal transducer and activator of transcription 1 attenuates allergen-induced airway inflammation and hyperreactivity (Quarcoo et al). 2004;114:288-95
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Turning off signal transducer and activator of transcription (STAT): the negative regulation of STAT signaling (Chen et al). 2004;114:476-89

Sinusitis
Antigen stimulation of T_H2 cells augments acute bacterial sinusitis in mice (Yu et al). 2004;114:328-34
Chronic sinusitis consensus and the way forward (Platts-Mills and Rosenwasser). 2004;114:1359-61 (Editorial)
Eosinophilic meningitis secondary to allergic *Aspergillus* sinusitis (Chan et al). 2004;114:194-5 (Letters to the editor)
HLA-DQB1*03 in allergic fungal sinusitis and other chronic hypertrophic rhinosinusitis disorders (Schubert et al). 2004;114:1376-83

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Advances in allergic skin disease, anaphylaxis, and hypersensitivity reactions to foods, drugs, and insect stings (Sicherer and Leung). 2004;114:118-24
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Involvement of CCL27-CCR10 interactions in drug-induced cutaneous reactions (Tapia et al). 2004;114:335-40

Skin tests
Effect of topical pimecrolimus on epicutaneous skin testing (Spergel et al). 2004;114:695-7 (Letters to the editor)
Interpretation of isolated positive skin test results for mesquite tree pollen (Kelso). 2004;114:452-4 (Letters to the editor)
Prausnitz and Küstner phenomenon: the P-K reaction (Cohen and Zelaya-Quesada). 2004;114:705-10 (The allergy archives)
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Sleep
Effect of pimecrolimus cream 1% on skin condition and sleep disturbance in children with atopic dermatitis (Leo et al). 2004;114:691-3 (Letters to the editor)
Inflammatory mediators in allergic rhinitis (Gelfand). 2004;114:S135-S138
Introduction: Stuffy is also related to Sleepy and Grumpy—the link between rhinitis and sleep-disordered breathing (Meltzer). 2004;114:S133-S134
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Snoring in children—association with asthma (Zweiman and Rothenberg). 2004;114:711 (Beyond our pages)
The correlation between allergic rhinitis and sleep disturbance (Craig et al). 2004;114:S139-S145

Smallpox
Latex allergens are not detectable in reconstituted smallpox vaccine or vaccine vial stoppers (Poland et al). 2004;114:454-6 (Letters to the editor)

Smooth-muscle cells
Methodologic advancements in the study of airway smooth muscle (Kotlikoff et al). 2004;114:S18-S31
Preface (Panettieri and Johnson). 2004;114:S1
Proliferative aspects of airway smooth muscle (Hirst et al). 2004;114:S2-S17
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TGF-β differentially regulates T_H2 cytokine-induced eotaxin and eotaxin-3 release by human airway smooth muscle cells (Zuyderduyn et al). 2004;114:791-8
The role of the mast cell in asthma: induction of airway hyperresponsiveness by interaction with smooth muscle? (Robinson). 2004;114:58-65

Snoring
Snoring in children—association with asthma (Zweiman and Rothenberg). 2004;114:711 (Beyond our pages)

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Safety and application of induced sputum analysis in childhood asthma (Covar et al). 2004;114:575-82
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Staphylococcus aureus
Staphylococcus aureus colonization and IgE antibody formation to enterotoxins is increased in nasal polyposis (Van Zele et al). 2004;114:981-3 (Letters to the editor)

Statistics
Statistical errors in immunologic research (Murphy). 2004;114:1259-63

Stings; *see* Hymenoptera; Insect bites and stings

Stress
Alterations of stress-induced expression of membrane molecules and intracellular cytokine levels in patients with atopic dermatitis depend on serum IgE levels (Stephan et al). 2004;114:977-8 (Letters to the editor)

Superantigens
Superantigen-induced corticosteroid resistance of human T cells occurs through activation of the mitogen-activated protein kinase kinase/extracellular signal-regulated kinase (MEK-ERK) pathway (Li et al). 2004;114:1059-69
Unraveling the mechanism by which microbial superantigens induce steroid resistance (Leung et al). 2004;114:995 (The editors' choice)

T

T lymphocyte receptors; *see* Receptors, antigen, T-cell
T lymphocytes
Advances in Asthma, Allergy and Immunology Series 2004: basic and clinical immunology (Chinen and Shearer). 2004;114:398-405
Allergic disease susceptibility and dual receptor T cells (Leung et al). 2004;114:1257 (The editors' choice)
An antigen-independent but not antigen-specific T_H1 response provides protection in the murine airway inflammation model (Burger et al). 2004;114:1301-8
Antigen stimulation of T_H2 cells augments acute bacterial sinusitis in mice (Yu et al). 2004;114:328-34
CD8+ αβ T cells can mediate late airway responses and airway eosinophilia in rats (Isogai et al). 2004;114:1345-52
Cell-to-cell contact between activated $CD4^+$ T lymphocytes and unprimed monocytes interferes with a T_H1 response (Wittmann et al). 2004;114:965-73
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Fantastic new insight into mechanisms of lung T_H2 responses (Zweiman and Rothenberg). 2004;114:461 (Beyond our pages)
Fluticasone propionate increases $CD4^+CD25^+$ T regulatory cell suppression of allergen-stimulated $CD4^+CD25^-$ T cells by an IL-10–dependent mechanism (Nguyen and Robinson). 2004;114:296-301
Glucocorticoids upregulate *FOXP3* expression and regulatory T cells in asthma (Karagiannidis et al). 2004;114:1425-33
Importance of technology for the future of allergy and immunology (Shearer). 2004;114:406-8 (Editorial)
Inducible costimulator–positive T cells are required for allergen-induced local B-cell infiltration and antigen-specific IgE production in lung tissue (Beier et al). 2004;114:775-82
Modulation of allergic responses in mice by using biodegradable poly(lactide-*co*-glycolide) microspheres (Jilek et al). 2004;114:943-50
Primary immunodeficiency diseases: an update (Notarangelo et al). 2004;114:677-87
Role of alternative macrophage activation (M2 macrophage) in T_H2 responses (Zweiman and Rothenberg). 2004;114:993-4 (Beyond our pages)
Susceptibility to allergic lung disease regulated by recall responses of dual-receptor memory T cells (Aronica et al). 2004;114:1441-8
Synergistic effects of fluticasone propionate and salmeterol on *in vitro* T-cell activation and apoptosis in asthma (Pace et al). 2004;114:1216-23
Toxic epidermal necrolysis: effector cells are drug-specific cytotoxic T cells (Nassif et al). 2004;114:1209-15
Turning up suppression: a novel anti-inflammatory action of steroids in allergic disease? (Leung et al). 2004;114:211 (The editors' choice)
Tacrolimus
Reduced dermal infiltration of cytokine-expressing inflammatory cells in atopic dermatitis after short-term topical tacrolimus treatment (Simon et al). 2004;114:887-95
Tacrolimus ointment causes inflammatory dendritic epidermal cell depletion but no Langerhans cell apoptosis in patients with atopic dermatitis (Schuller et al). 2004;114:137-43
Tacrolimus reduces urinary excretion of leukotriene E4 and inhibits aspirin-induced asthma to threshold dose of aspirin (Kawano et al). 2004;114:1278-81
Technology
Importance of technology for the future of allergy and immunology (Shearer). 2004;114:406-8 (Editorial)
Testicular diseases
Association between atopy and cryptorchidism (Weidinger et al). 2004;114:192-3 (Letters to the editor)
Thimerosal
Mechanistic actions of the risks and adverse events associated with vaccine administration (Moylett and Hanson). 2004;114:1010-20
Tobacco
Characteristics of children with asthma who are enrolled in a Head Start program (Vargas et al). 2004;114:499-504
Glucocorticoid receptor α:β ratio in blood mononuclear cells is reduced in cigarette smokers (Livingston et al). 2004;114:1475-8 (Letters to the editor)
Tolerance; *see* Immune tolerance
Toll-like receptors
Activation of mast cells by double-stranded RNA: evidence for activation through Toll-like receptor 3 (Kulka et al). 2004;114:174-82
Toxic epidermal necrolysis
Toxic epidermal necrolysis: effector cells are drug-specific cytotoxic T cells (Nassif et al). 2004;114:1209-15

Toxicology
Exposure-dose-response: critical considerations in toxicology and immunology alike (Hossain and Ghannoum). 2004;114:207-8 (Letter reply)
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Cell-to-cell contact between activated $CD4^+$ T lymphocytes and unprimed monocytes interferes with a T_H1 response (Wittmann et al). 2004;114:965-73
IL-17A augments TNF-α–induced IL-6 expression in airway smooth muscle by enhancing mRNA stability (Henness et al). 2004;114:958-64
Turning off signal transducer and activator of transcription (STAT): the negative regulation of STAT signaling (Chen et al). 2004;114:476-89
Transforming growth factor
Leukotriene D_4 stimulates collagen production from myofibroblasts transformed by TGF-β (Asakura et al). 2004;114:310-5
Nasal mucosal immunoexpression of the mast cell chemoattractants TGF-β, eotaxin, and stem cell factor and their receptors in allergic rhinitis (Salib et al). 2004;114:799-806
TGF-β differentially regulates T_H2 cytokine-induced eotaxin and eotaxin-3 release by human airway smooth muscle cells (Zuyderduyn et al). 2004;114:791-8
Tolerance to inhaled antigen involves membrane-bound TGF-β (Zweiman and Rothenberg). 2004;114:994 (Beyond our pages)
Trichosporon
Invasive infection with *Trichosporon inkin* in 2 siplings with chronic granulomatous disease (Wynne et al). 2004;114:1418-24 (Case study)
Regarding "*Trichosporon pullulans* infection in 2 patients with chronic granulomatous disease" (Holland et al). 2004;114:205-6 (Correspondence)
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Tryptase; *see* Inflammation mediators

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United airways concept
Evidence linking otitis media with effusion to the united airways concept (Leung et al). 2004;114:996 (The editors' choice)
Similar allergic inflammation in the middle ear and the upper airway: evidence linking otitis media with effusion to the united airways concept (Nguyen et al). 2004;114:1110-5
Urban health
Airborne fungi in the homes of children with asthma in low-income urban communities: The Inner-City Asthma Study (O'Connor et al). 2004;114:599-606
Physical activity levels in urban school children with asthma (Zweiman and Rothenberg). 2004;114:209 (Beyond our pages)
Risk factors for fungal exposure in inner city homes (Leung et al). 2004;114:464 (The editors' choice)
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Chronic idiopathic urticaria exacerbated with progesterone therapy treated with a novel desensitization protocol (Poole and Rosenwasser). 2004;114:456-7 (Letters to the editor)
Chronic urticaria: pathogenesis and treatment (Kaplan). 2004;114:465-74
Decreasing incidence of occupational contact urticaria caused by natural rubber latex allergy in German health care workers (Allmers et al). 2004;114:347-51
High prevalence of autoimmune urticaria in children with chronic urticaria (Brunetti et al). 2004;114:922-7
Leukotriene receptor antagonists ineffective as add-on therapy for chronic idiopathic urticaria (Leung et al). 2004;114:464 (The editors' choice)
Peltier effect–based temperature challenge: an improved method for diagnosing cold urticaria (Siebenhaar et al). 2004;114:1224-5 (Letters to the editor)
Randomized placebo-controlled trial comparing desloratadine and montelukast in monotherapy and desloratadine plus montelukast in combined therapy for chronic idiopathic urticaria (Di Lorenzo et al). 2004;114:619-25
The declining incidence of latex sensitization (Leung et al). 2004;114:211 (The editors' choice)

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Vascular diseases
New urinary biomarkers of vasculitides activity and oxidative tissue damage (Leung et al). 2004;114:1258 (The editors' choice)
Urinary eicosanoid and tryosine derivative concentrations in patients with vasculitides (Higashi et al). 2004;114:1353-8
Venom allergy; *see* Hymenoptera; Insect bites and stings
Viral infections; *see also* Infections; *specific infections*
Cytomegalovirus infection and development of allergic diseases in early childhood: interaction with EBV infection? (Sidorchuk et al). 2004;114:1434-40
Transient postviral vocal cord dysfunction (Taramarcaz et al). 2004;114:1471-2 (Letters to the editor)

Viral infections and asthma inception (Lemanske). 2004;114:1023-6

Viral infections in relation to age, atopy, and season of admission among children hospitalized for wheezing (Heymann et al). 2004;114:239-47

Vocal cords

Transient postviral vocal cord dysfunction (Taramarcaz et al). 2004;114:1471-2 (Letters to the editor)

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Warts

A 55-year-old man with hypogammaglobulinemia, lymphopenia, and unrelenting cutaneous warts (Lynn et al). 2004;114:409-14 (Case study)

Wasp allergy; *see* Hymenoptera

Wheezing

Atopic characteristics of children with recurrent wheezing at high risk for the development of childhood asthma (Guilbert et al). 2004;114:1282-7

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The spectrum of severe wheezing in childhood (Gern). 2004;114:236-8 (Editorial)

Umbilical cord and maternal blood red cell fatty acids and early childhood wheezing and eczema (Newson et al). 2004;114:531-7

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